711737

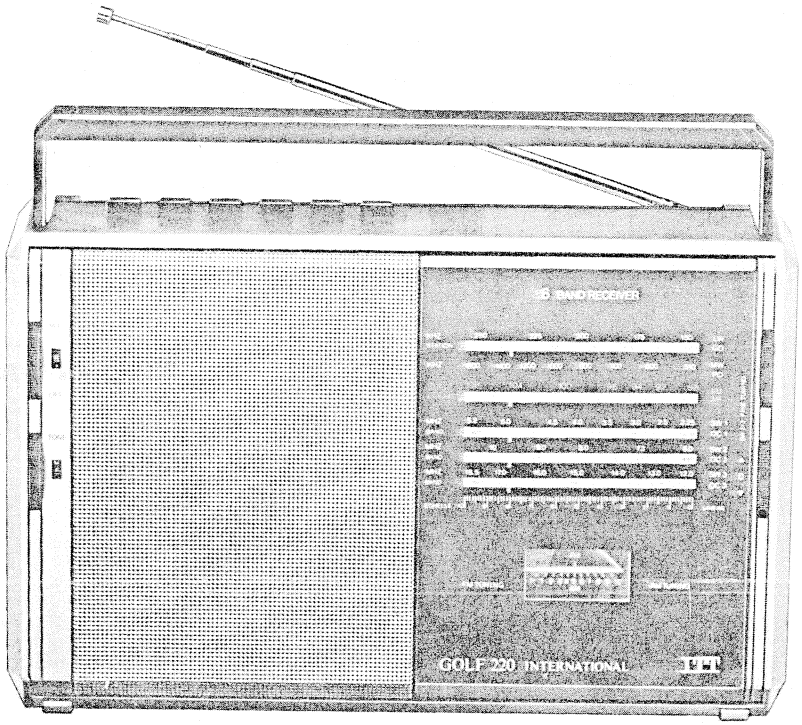
KUNDENDIENST

ITT Graetz

SERVICE

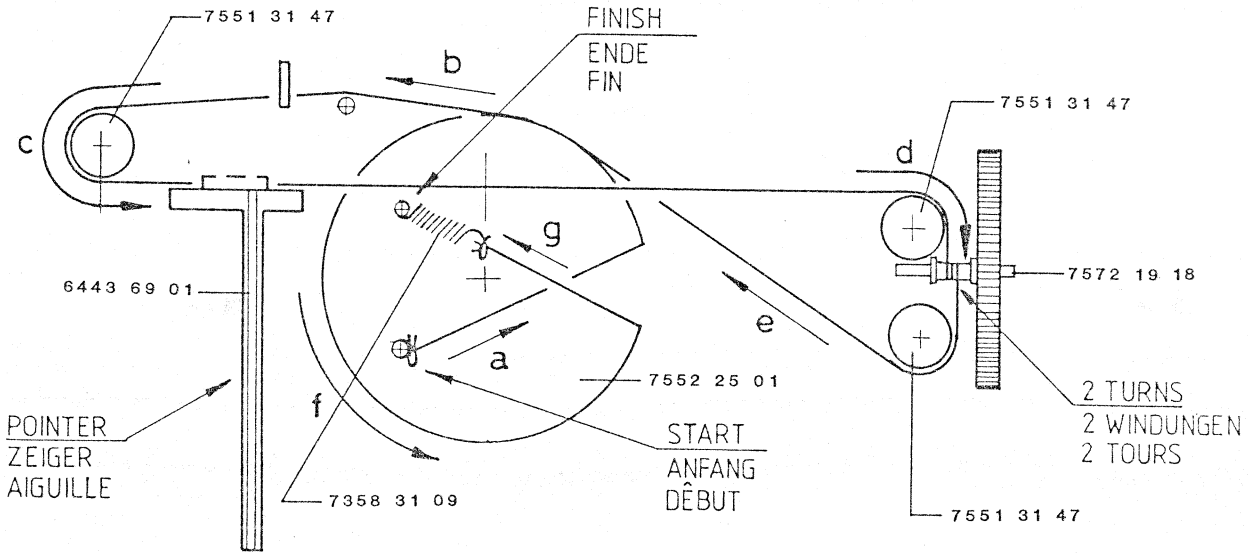
MANUAL
GOLF 220 INTERNATIONAL

K
117
1984



GOLF 220 INTERNATIONAL 5513 2115

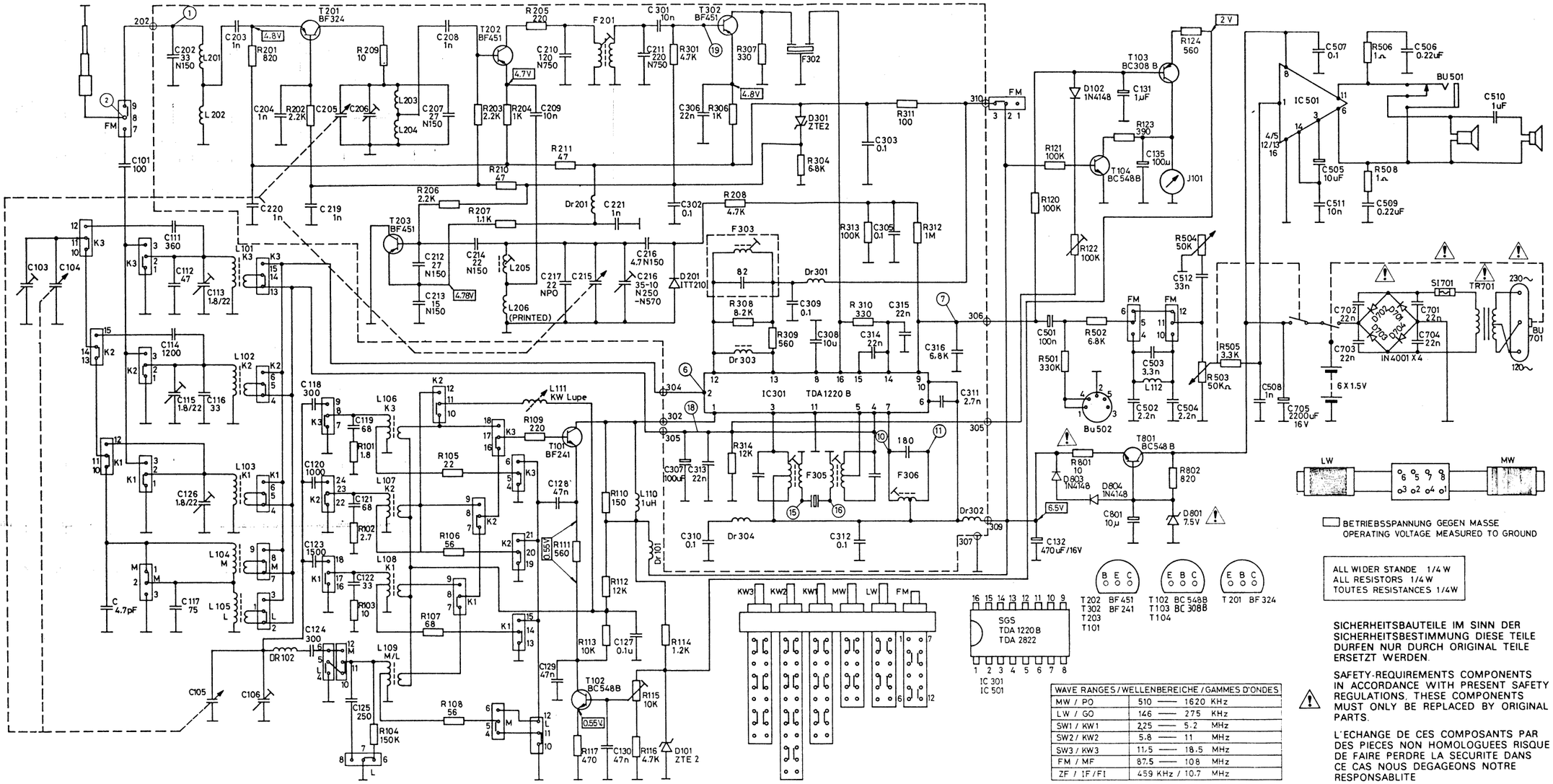
Drive Cord Assembly/ Antriebsschema/ Montage du câble d'entraînement.



VARIABLE CONDENSER AT MAX. CAPACITY/
DREHKO AUF MAX. KAPAZITAT EINGESTELLT/
CONDENSATEUR AU MAXIMUM DE CAPACITÉ.

Bei Reparaturen gültige Sicherheitsvorschriften beachten!

		≈		FM MHz AM kHz			
AM ZF-IF-FI		TP 6 459 kHz TP10 TP11 10 k TP15 TP16 1k 1k	via 15 k TP 7	1600 kHz	F 305	max.	
		TP 6 459 kHz	"	1600 kHz	F 306	"	
MW		–	–	MW	R 115	0.55 v– R 111	
	Oscillator	510 kHz 1620 kHz	" "		L 109 C 106	max. "	
	Input	600 kHz 1400 kHz	" "	600 kHz 1400 kHz	L 104 C 103	" "	
LW		160 kHz	"	160 kHz	L 105	"	
SW		C 10 p Ri TP 2		1 2 SW-2-3 FINE TUNING			
SW1	Oscillator	2,25 MHz	via 15 K TP 7		L 108	max.	
		5,2 MHz	"		–	"	
	Input	2,3 MHz	"	2,3 MHz	L 103	"	
		4,5 MHz	"	4,5 MHz	C 126	"	
SW2	Oscillator	5,8 MHz	"		L 107	"	
		10,5 MHz	"		–	"	
	Input	6,5 MHz	"	6,5 MHz	L 102	"	
		10 MHz	"	10 MHz	C 115	"	
SW3	Oscillator	11,5 MHz	"		L 106	"	
		18,5 MHz	"		–	"	
	Input	12,5 MHz	"	12,5 MHz	L 101	"	
		17 MHz	"	17 MHz	C 113	"	
FM ZF/IF/F		TP 19 X C 301	via 15 K TP 7	–	F 303	"	
		TP 1 90 MHz	"	–	F 201	"	
	Oscillator	TP 1 87,5 MHz	"		L 205	"	
		108 MHz	"		C 216	"	
	Input	106 MHz	"	106 MHz	C 206	"	
		90 MHz	"	90 MHz	L 203	"	
Tuning Meter		–	–	FM No signal	R 122	F M	



BETRIEBSSPANNUNG GEGEN MASSE
OPERATING VOLTAGE MEASURED TO GROUND

ALL WIDER STANDE 1/4 W
ALL RESISTORS 1/4 W
TOUTES RESISTANCES 1/4 W

SICHERHEITSBAUTEILE IM SINN DER SICHERHEITSBESTIMMUNG DIESE TEILE DURFEN NUR DURCH ORIGINAL TEILE ERSETZT WERDEN.

SAFETY-REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT SAFETY REGULATIONS, THESE COMPONENTS MUST ONLY BE REPLACED BY ORIGINAL PARTS.

L'ECHANGE DE CES COMPOSANTS PAR DES PIECES NON HOMOLOGUEES RISQUE DE FAIRE PERDRE LA SECURITE DANS CE CAS NOUS DEGAGEONS NOTRE RESPONSABLITE

WAVE RANGES / WELLENBEREICHE / GAMMES D'ONDES			
MW / PO	510	1620	KHz
LW / GO	146	275	KHz
SW1 / KW1	2,25	5.2	MHz
SW2 / KW2	5.8	11	MHz
SW3 / KW3	11.5	18.5	MHz
FM / MF	87.5	108	MHz
ZF / IF / FI	459 KHz / 10.7		MHz

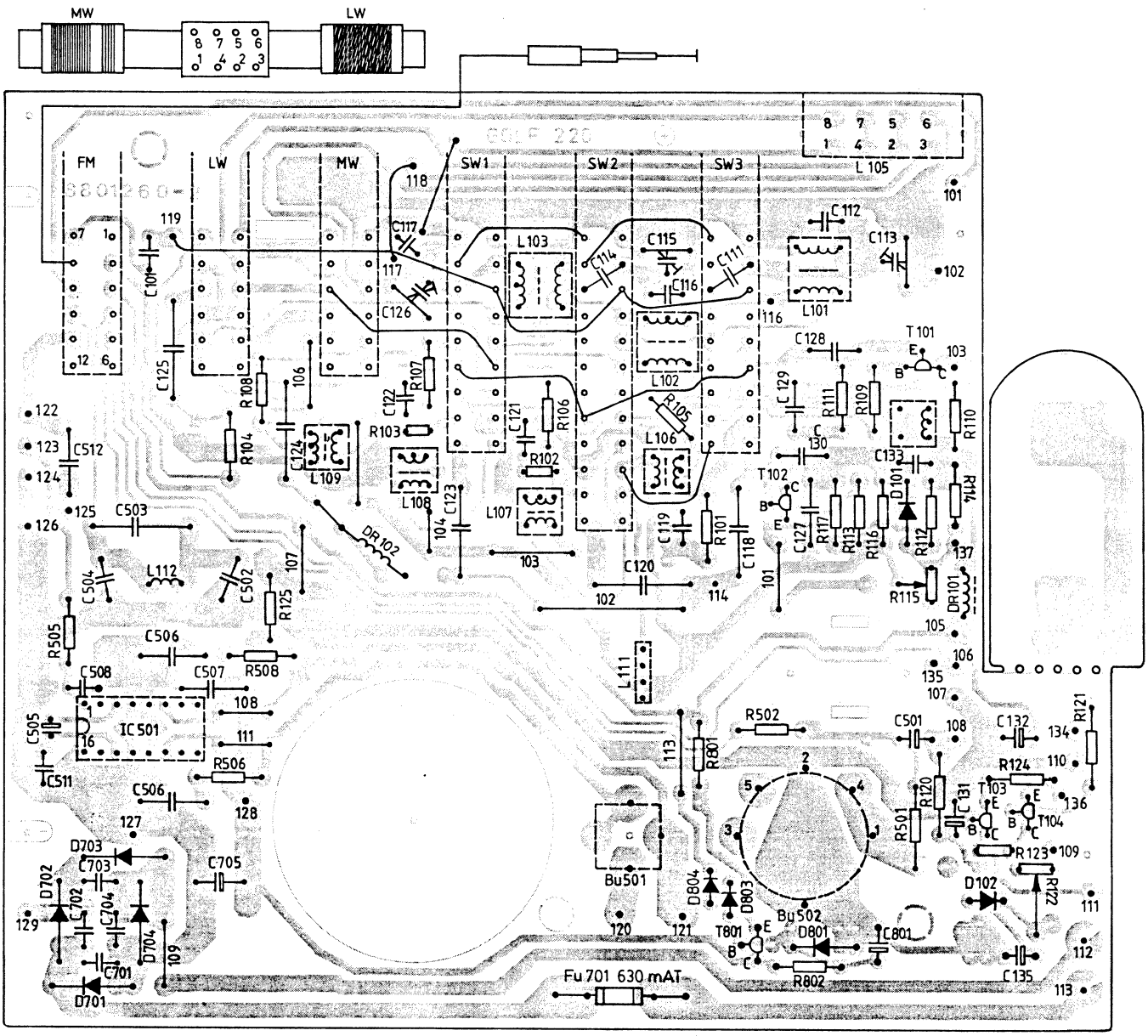
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
IC 301	IC TDA 1220 B	3768 98 03
IC 501	IC TCA 2822	3771 47 23
T 101	BF 241	3612 47 02
T 102,103,104	BC 548 B	3614 13 12
T 201	BF 324	3612 52 01
T 202,203,302	BF 451	3612 52 31

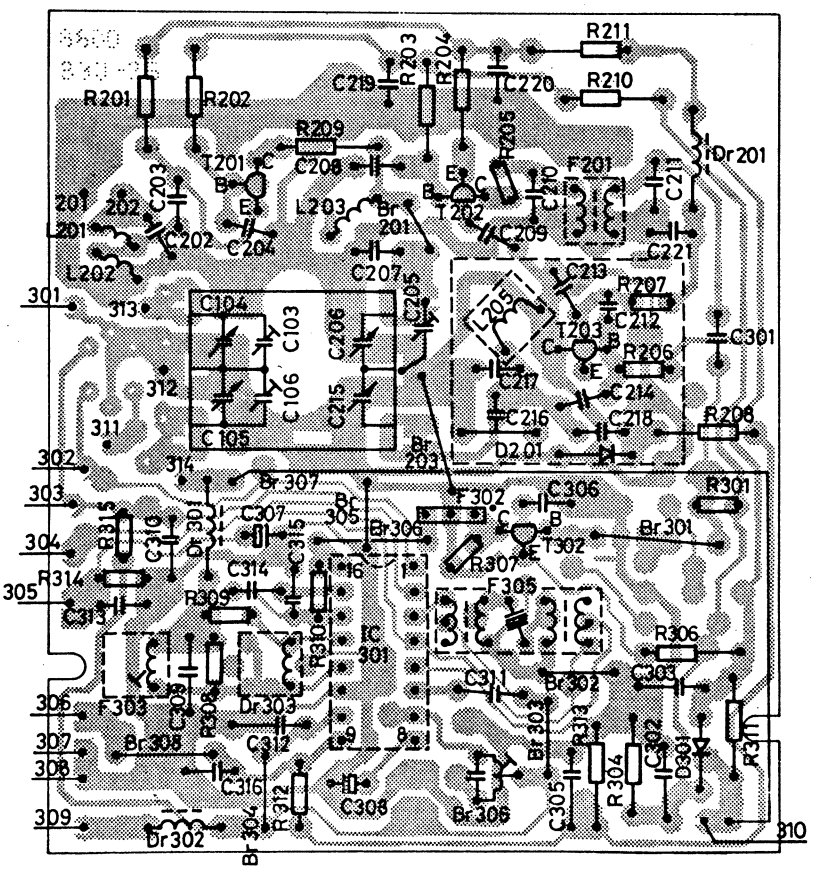
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
D 101,102	ZTE 15 V	3656 28 69
D 201	ITT 410 K	3656 20 40
D 301	ZTE 2	3653 15 10
D 701,702,703, 704	IN 4001	3657 11 05
R 115	10 k	3111 80 44
R 122	100 k	3111 50 68

Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
R 123	5 k	3111 80 32
R 503	50 k	3112 97 27
R 504	50 k	3111 85 40
C 103	Var.cap.	3418 80 89
C 132	470 uF 16 V	3421 08 86
C 307	100 uF 10 V	3422 85 38
C 308,312,505	10 uF 16 V	3422 09 98
C 501	1 uF 50 V	3422 08 14
C 510	4,7 uF 50 V	3422 58 79
C 705	2200 uF 16 V	3422 27 91

Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
L 101		4543 99 29
L 102		4543 99 28
L 103		4543 99 27
L 104		4543 99 32
L 106		4543 99 25
L 107		4543 99 24
L 108		4543 99 23
L 109		4543 99 26
L 110		4543 99 30
L 111		4541 01 10
L 112		4543 99 31

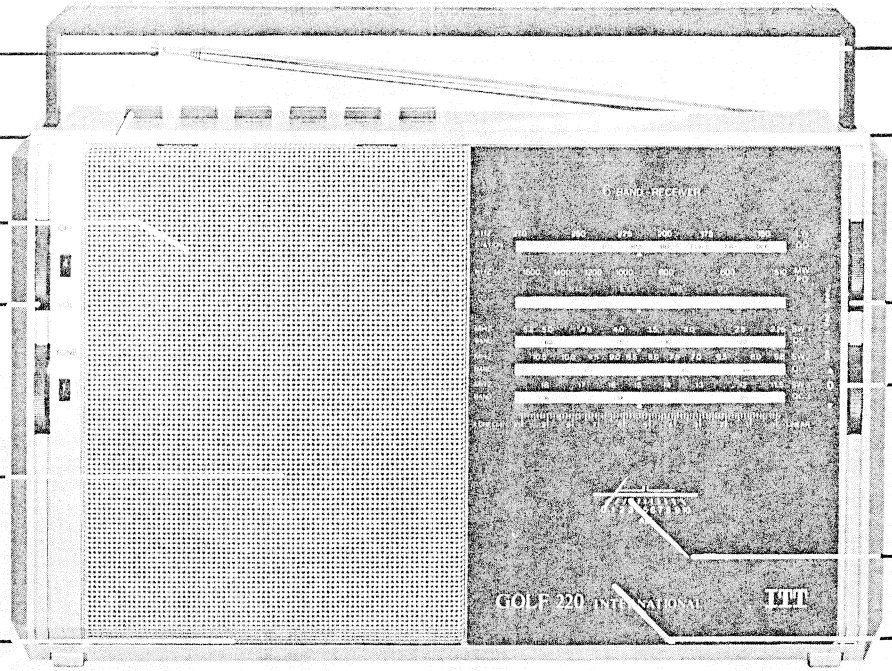
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
L 201		4543 13 44
L 202		4543 13 45
L 203		4552 92 12
L 205		4543 97 96
F 201		4552 83 92
F 302		4552 87 60
F 303		4552 92 10
F 305		4551 88 04
F 306		4552 92 11
Dr 101,201,301, 302,304		4543 12 69
Dr 303		4543 96 46

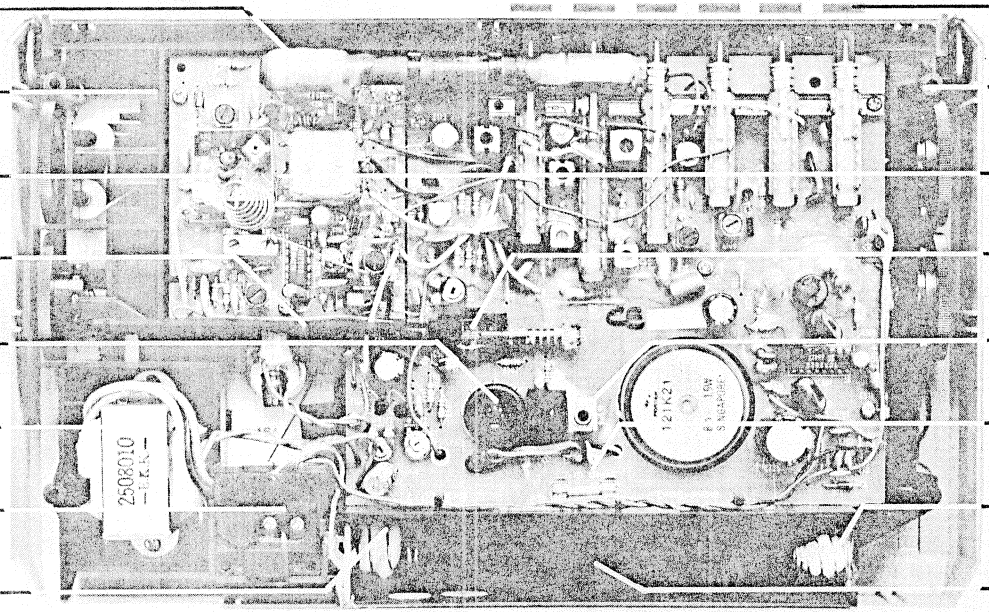

MW
LW
FM
SW1
SW2
SW3
L 105
IC 501
Fu 701 630 mAT
Bu501
Bu502



Bei Reparaturen die VDE-Bestimmungen 0860 H beachten.

Änderungen vorbehalten – Modifications reserved





Teleskopantenne Telescopic antenna Antenne téléscopique	4471 90 19	
Taste Push button Bouton poussoire	6312 81 02	
Hochtöner LS 502 Tweeter LS 502	4311 92 69	
Knopf Knob Bouton	6322 20 10	
Grill Grille	6135 95 10	
Lautsprecher 8 Ohm Loudspeaker Haut-parleur	4311 93 76	
Befestigung Fastening Fixation	7368 01 95	
Gehäusefront Cabinet, front Boitier, front	6135 93 18	
Ferritstab Ferrite rod Antenne ferrite	4543 99 32	
Skalenblende Dial dummy plate Fausse du cadran	8681 36 74	
Feder Spring Ressort	7358 31 09	
Schieber Slider Glisseur	8625 29 05	
DIN Buchse DIN socket Prise DIN	4144 81 55	
Netztransformator Mains transformer Transformateur au reseau	4511 33 30	
Netzbuchse Mains socket Prise secteur	4134 02 80	
Batteriekontaktplatte ± Battery contact board ± Plaque de contact ±	7353 13 01	

Griff Handle Portant	6341 54 02	
Gehäuserückwand Cabinet, rear Boitier, arrière	6135 94 20	
Knopf Knob Bouton	6322 20 02	
Achse Shaft Arbre	7572 26 01	
Knopf Knob Bouton	6328 33 01	
Achse Shaft Arbre	7572 28 01	
Anzeigeinstrument Indicator meter Vu-metre d'indication	4427 91 18	
Skala Dial Cadran	6414 46 04	
Tastatur Key-board Clavier	4112 66 01	
Chassisrahmen Chassis frame Chassis	8626 77 03	
Abschirmblech Shielding metal Tole de blindage	8311 17 03	
Führung Guide Guidage	8681 36 75	
Ohrhörerbuchse Earphone socket Prise pour ecouteur	4144 80 48	
Sicherungshalter Fuse holder Porte fusible	4157 04 51	
Kontaktfeder Contact spring Ressort de contact	7358 41 96	
Batteriedeckel Battery lid Couvercle de piles	6135 96 05	

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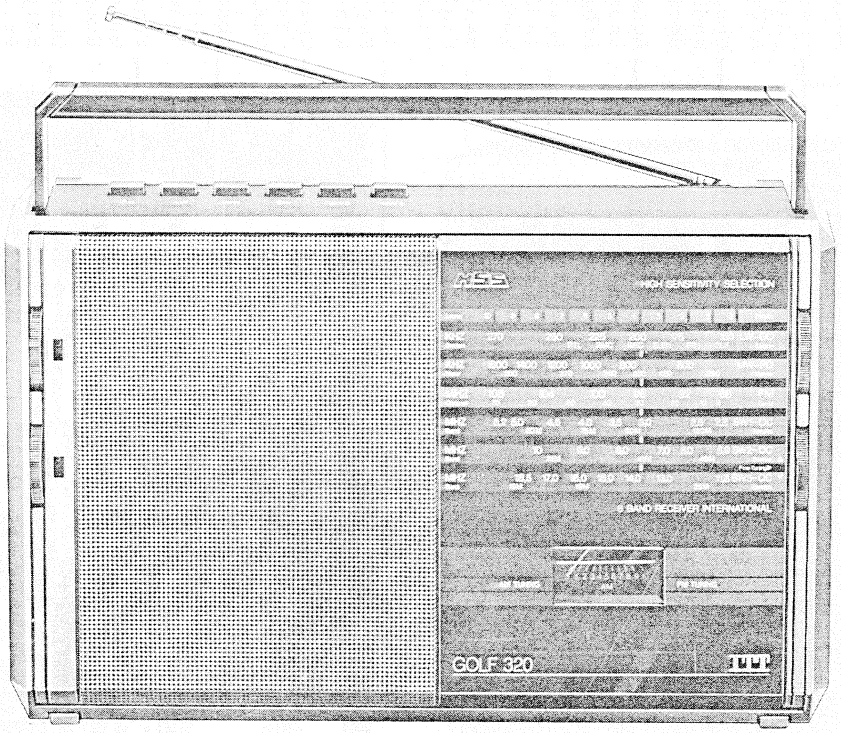
KUNDENDIENST ITT Graetz SERVICE

MANUAL
GOLF 320

K 118 1985



GOLF 320 5511 52 00

Für dieses Gerät gilt das Service-Manual "GOLF 220" (K 117) mit folgenden Änderungen:
The Service-Manual "GOLF 220" (K 117) applies exept for the following changes:
Quant à ce modèle, le manual "GOLF 220" (K 117) est valable exclus le modifications suivantes:

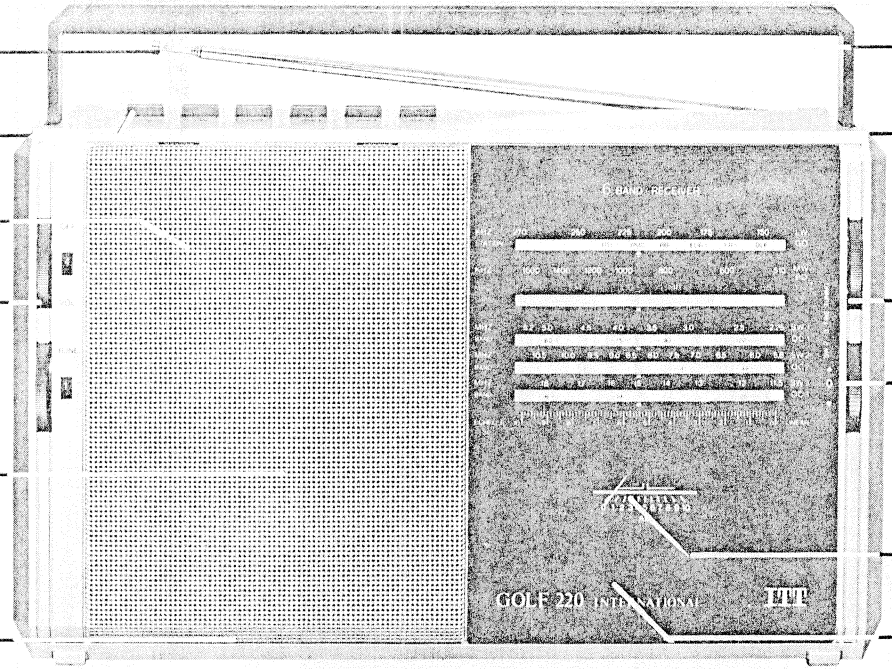
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
T 801	BF 241	3612 47 02
T 103	BC 308 B	3614 29 42
D 102,903,904	IN 4148	3656 08 10
D 101	ZTE 2	3653 15 10
D 801	7,5 V	3653 01 83
R 122	100 k	3311 80 30
R 504	50 k	3111 97 36
C 103	Var.cap.	3418 80 97
C 113,115,126	18,5 pF	3412 09 05

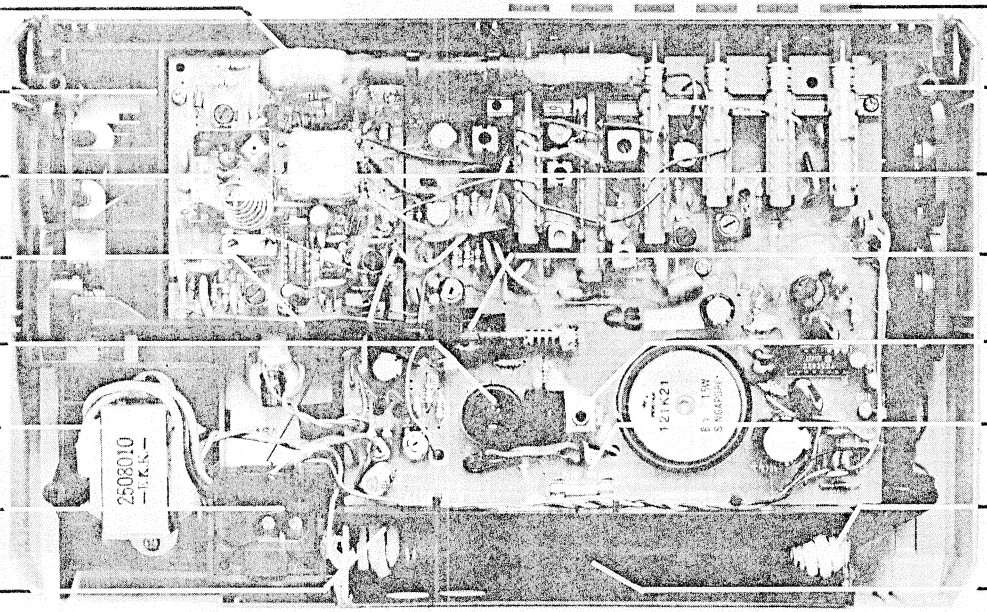
Positions-Nr. Reference-No. Numéro de pos.	Gegenstand Description Description	Bestell-Nr. Part-No. No. de comm.
C 134	220 uF 10 V	3422 85 29
C 135	100 uF 10 V	3422 85 38
C 131	1 uF 50 V	3422 08 14
C 510	4,7 uF 50 V	3422 85 22
C 801	10 uF 10 V	3441 22 13
Dr 102		4543 18 14
Gedr.Platte FM Printed Board FM Circuit impr. FM		6913 29 92
Gedr.Platte AUDIO Printed Board AUDIO Circuit impr. AUDIO		6913 30 62

Bei Reparaturen gültige Sicherheitsvorschriften beachten!

Bei Reparaturen die VDE-Bestimmungen 0860 H beachten.

Änderungen vorbehalten — Modifications reserved





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Taste Push button Bouton poussoire	N	6318 34 50
Hochtöner LS 502 Tweeter LS 502		4311 92 69
Knopf Knob Bouton	N	6328 09 40
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Befestigung Fastening Fixation		7368 01 95
Gehäusefront Cabinet, front Boitier, front	N	6135 45 40
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Skalenblende Dial dummy plate Fausse du cadran		8681 36 74
Feder Spring Ressort		7358 31 09
Schieber Slider Glisseur		8625 29 05
DIN Buchse DIN socket Prise DIN		4144 81 55
Netztransformator Mains transformer Transformateur au reseau		4511 33 30
Netzbuchse Mains socket Prise secteur		4134 02 80
Batteriekontaktplatte + Battery contact board + Plaque de contact +		7353 13 01

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Gehäuserückwand Cabinet, rear Boitier, arrière	N	6135 45 41
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Abschirmblech Shielding metal Tole de blindage		8311 17 03
Führung Guide Guidage		8681 36 75
Ohrhörerbuchse Earphone socket Prise pour ecouteur		4144 80 48
Sicherungshalter Fuse holder Porte fusible	N	4144 81 64
Kontaktfeder Contact spring Ressort de contact		7358 41 96
Batteriedeckel Battery lid Couvercle de piles	N	6135 45 42

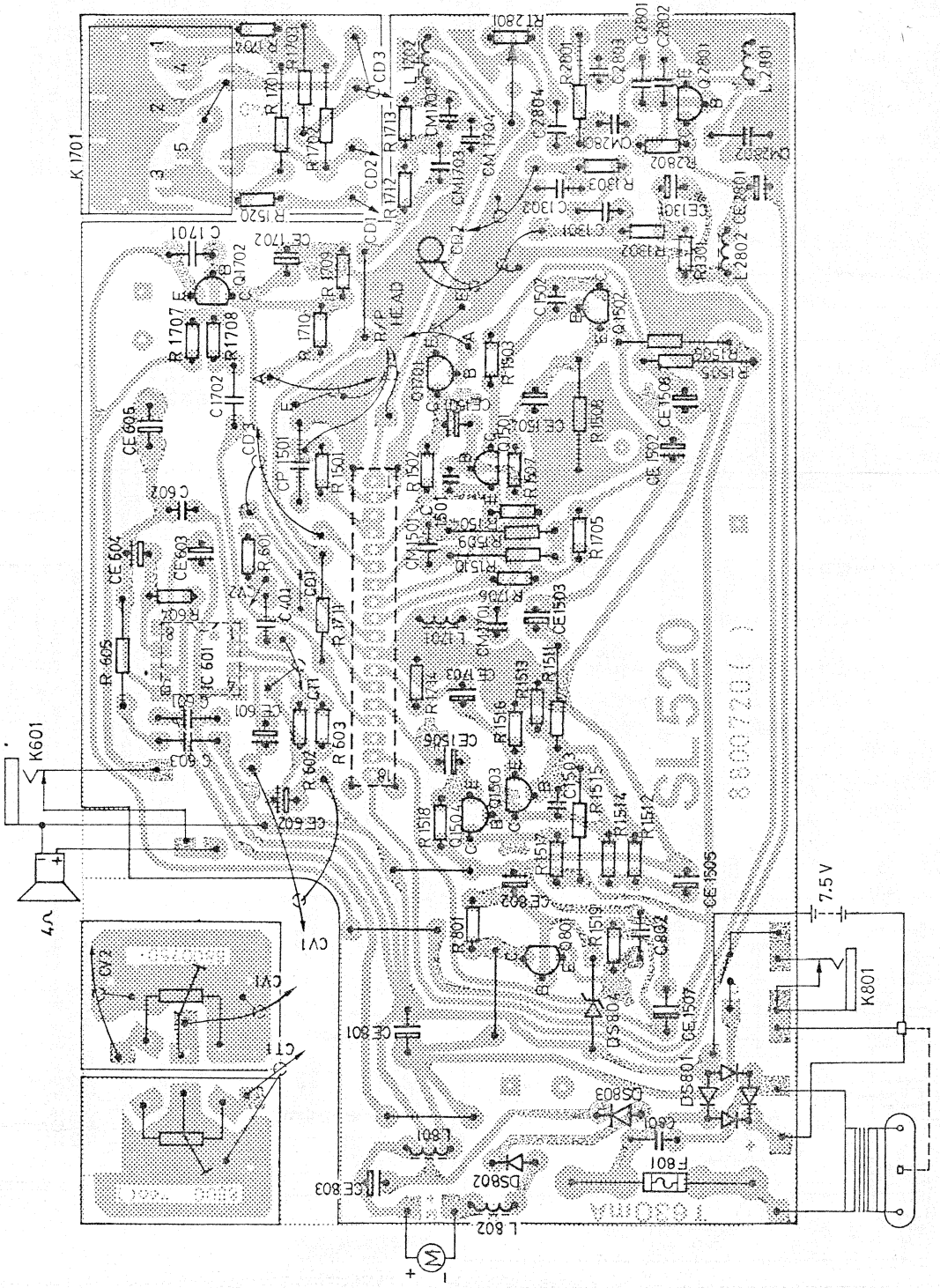
N = Neue Bestellnummer

ITT

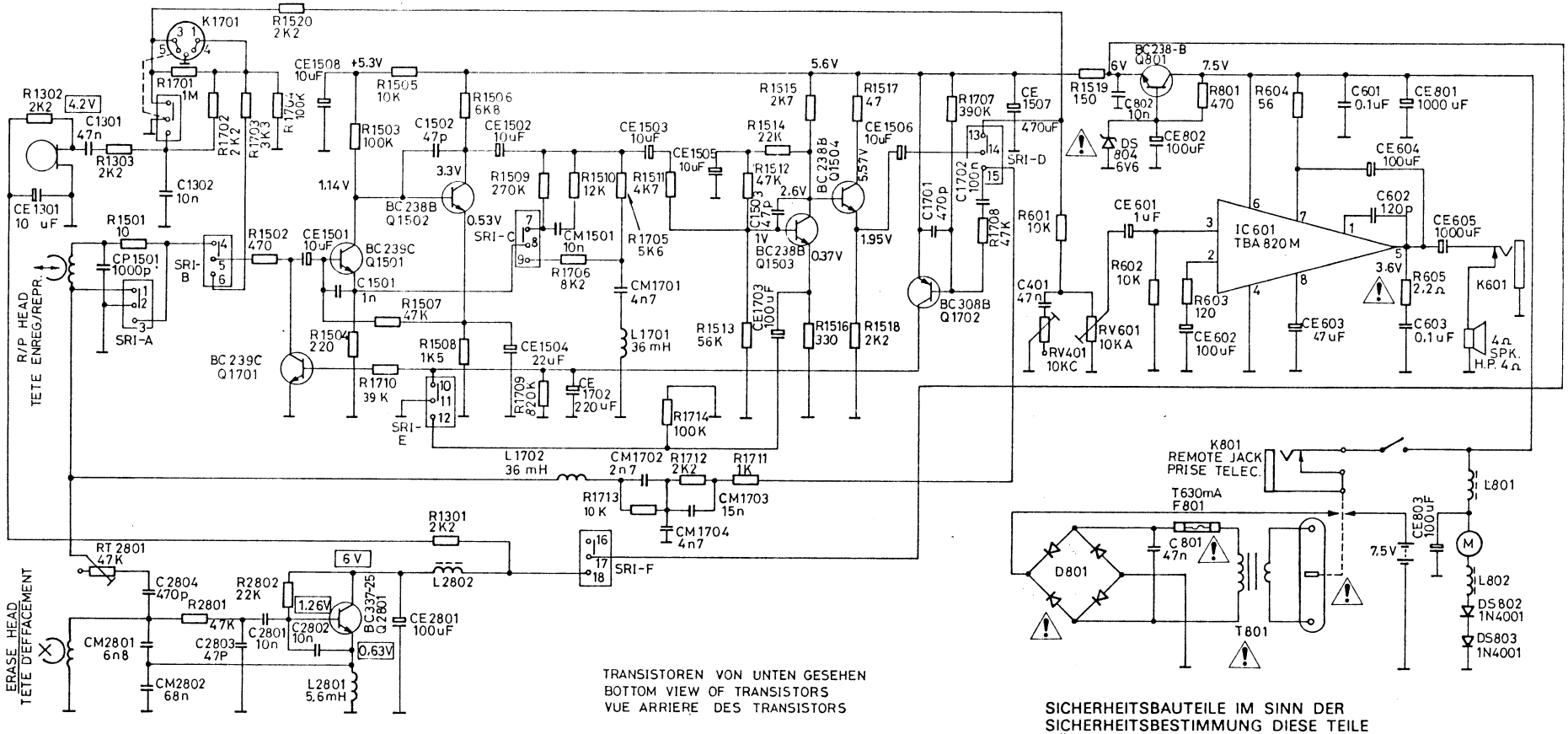
SERVICE-
INFORMATION

SL 520

Leiterplatten / Printed Boards / Circuits imprimés

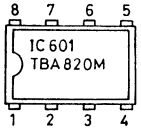


Änderungen vorbehalten – Modifications réservées – Modifications reserved

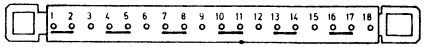


TRANSISTOREN VON UNTEN GESEHEN
BOTTOM VIEW OF TRANSISTORS
VUE ARRIERE DES TRANSISTORS

BC 238B
BC 308B
BC 239C
BC 337/25



SEMICONDUCTOR – CONNECTIONS
HALBLEITERANSCHLUESSE
CONNEXIONS DES SEMICONDUCTEURS.



SWITCH CONTACTS SHOWN IN PLAYBACK POSITION.
GEZEICHNETE SCHALTERSTELLUNG: WIEDERGABE.
SELECTEUR EN POSITION LECTURE.

---V BEI STELLUNG WIEDERGABE
IN PLAYBACK POSITION
EN POSITION REPRODUCTION

---V BEI STELLUNG AUFNAHME
IN RECORDING POSITION
EN POSITION EN REGISTREMENT

SICHERHEITSBAUTEILE IM SINN DER SICHERHEITSBESTIMMUNG DIESE TEILE DÜRFEN NUR DURCH ORIGINAL TEILE ERSETZT WERDEN.

SAFETY-REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT SAFETY REGULATIONS, THESE COMPONENTS MUST ONLY BE REPLACED BY ORIGINAL PARTS.

L'ECHANGE DE CES COMPOSANTS PAR DES PIECES NON HOMOLOGUEES RISQUE DE FAIRE PERDRE LA SECURITE DANS CE CAS NOUS DEGAGEONS NOTRE RESPONSABLITE